FIELD MUSEUM OF NATURAL HISTORY

MANUAL

CHICAGO, U. S. A.

JULY, 1926

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"Oh mickle is the pow'rful good that lies
"In herbs, trees, stones, and their true qualities:
"For nought so vile that on the earth doth live,
"But to the earth some secret good doth give.
"And nought so rich on either rock or shelf,
"But, if unknown, lies uselesse to itself.
"Therefore who thus doth make their secrets known
"Doth profit others, and not hurt his own."

Romeo & Juliet, Act II, Scene III.

Foreword

The revised edition of the Manual contains information concerning the history of Field Museum of Natural History, its expeditions, activities and endowments. It contains brief descriptive statements regarding the several Departments of the Museum, namely, Anthropology, Botany, Geology, Zoology and the N. W. Harris Public School Extension. The Manual also contains the names of the larger contributors and a complete list of the members of the Museum.

The Museum is the property of the people of Chicago. It is the aim and ambition of the Board of Trustees and of the Museum Staff to maintain its high standards and to further develop it as an outstanding educational institution, and as such it becomes a people's university, that is, a means of culture and recreation. It is this conception that actuates the Museum in all its undertakings.

D. C. DAVIES, Director.

July, 1926

Field Museum of Natural History

Purpose and Scope

The purpose of an educational museum, broadly speaking, should be the extension and diffusion of popular information and the demonstration of scientific fact among the people and to create an available repository and archive for scientific material and data. Field Museum of Natural History, through its various media, affords educational opportunities for all classes. The child secures glimpses of a larger world, the schoolboy illustrations of the geography which he studies, the university student vivid lessons in science, and the most advanced scholar materials for prosecuting investigations intended to enlarge the boundaries of science.

The original intention of the founders of the Museum was to create an institution, the scope of which would include both history and the sciences. The difficulty of co-relating these diverse subjects and the necessity for certain limitations of space and interest, finally led the Board of Trustees to limit the scope of the collections and research to Anthropology, Botany, Geology and Zoology. Since 1905 these sciences alone have been included in the Museum's field of activity, materials and collections in other departments having been distributed to other institutions.

Foundation and Early Development

The story of the phenomenal rise of Chicago as a commercial and industrial centre is a romance that has

few equals in the history of cities. As far back, however, as the early eighties, there existed a feeling among a group of public spirited citizens that the growth was not proportional. They were conscious that, to secure the future welfare of the community, proper facilities for popular education and culture should be provided. This feeling crystalized into a determination to construct and equip a great Museum which would make science in its most interesting and fascinating form, accessible to every member of the community.

In 1891 the preliminary steps were taken and the Columbian Historical Association formed. The preparations for, and the holding of the World's Fair in 1893 caused the project to remain in abeyance for a time; but, on August 11th of the latter year, the Directors of the Exposition appointed a committee composed of Messrs. George R. Davis, H. N. Higinbotham and James W. Scott to form a nucleus of representative citizens who were interested in the matter. This resulted in the formation, on August 21st, 1893, of "The Columbian Museum of Chicago" and articles for its incorporation were prepared.

The number and value of the exhibits shown at the World's Columbian Exposition, and their fitness for museum purposes, was an opportunity to establish the proposed institution on a large and liberal scale of which the committee was not slow to avail itself. The great nations of the world, after a long period of peace and prosperity, had reached a high state of artistic and industrial development. Competition and rivalry led each nation to produce and exhibit its best. The display of material was, consequently, unsurpassed. The pioneers of the Museum determined that the most im-

portant and valuable of these exhibits should remain in Chicago.

The task of acquiring valuable collections was conducted with zeal; but the expense was great, and it was not until October 26th, when it was announced that Marshall Field had given one million dollars to the institution, that the future of the Museum was assured. Two days later, Messrs. George M. Pullman and Harlow N. Higinbotham each subscribed one hundred thousand dollars, and Mrs. Mary D. Sturges gave fifty thousand dollars. Holders of stock in the World's Columbian Exposition gave shares which netted the Museum approximately one hundred and ninety-five thousand dollars.

Several valuable collections were then purchased and numerous gifts of exhibition material were received. The first notable contribution of this character was that of Mr. Edward E. Ayer, who presented his anthropological collection valued at over one hundred thousand dollars.

The Palace of Art, most beautiful of the World's Fair buildings, was secured as a temporary home for the Museum, and the exhibits were assembled there. This building in Jackson Park served as Museum quarters for the twenty-seven years which elapsed before the opening of the magnificent structure which now houses the collections. Frederick J. V. Skiff was given temporary charge of the onerous task of classifying the great mass of material, and was later made director. On May 21st the Trustees changed the name to "Field Columbian Museum". The doors were first opened to the public June 2nd, 1894. In 1905, when the limitation of the scope of the Museum to scientific

subjects was made, the name was changed to that used today, "Field Museum of Natural History".

Marshall Field's interest in the Museum never flagged, and his earnestness was demonstrated in his will which provided a bequest of eight million dollars, one-half of which was for an endowment fund, and one-half for a building. The Board of South Park Commissioners provided the site of the new building. The location finally chosen was at the foot of Roosevelt Road, on the Lake front, a spot accessible from all parts of the city. The construction of the building was begun in 1915 and completed in 1920. The new building was formally opened to the public May 2nd, 1921.

The New Building

The building which now houses the exhibits of Field Museum of Natural History is a beautiful structure of white Georgia marble, classic in design and massive in proportion.

The main architectural motifs of the building were inspired by the Erechtheum, one of the temples of the noted Acropolis group in Athens and generally recognized as the most refined example of the Ionic order. This ancient pile which combined the sanctuaries of Erechtheus and Athena Polias, stands upon the spot where, according to Greek mythology, the contest between Athena and Poseidon for the possession of Athens took place. After the burning of the original building by the Persians in 480 B. C., the rebuilding of the structure was begun. It is supposed to have been finished about 407 B. C. It has gained particular fame as an example of the decorative use of caryatids.

With this classic structure as a model, the architects, D. H. Burnham and Co., designed a monumental building. After the death of Mr. Burnham, the task was carried on by Graham, Anderson, Probst and White. The completed structure is seven hundred feet long, three hundred and fifty feet wide, and approximately ninety feet in height. The north and south façades are divided into a large pedimented central pavilion and two long wings, having a complete series of Ionic columns running throughout their lengths, and terminated by smaller pavilions at each end. This order rests upon a basement story and is crowned by an attic, pierced with windows.

The building stands in the center of a parked area to the north of Soldiers' Field. It may be reached by a series of boulevards, the Illinois Central surburban service, and by surface and elevated electric lines. An attractive feature of the exterior is the terrace, sixty feet wide, extending all the way around the building and rising six feet above the ground. This terrace has a retaining wall, steps and balustrade of the same marble as the building proper. The main entrance is provided with an ample flight of steps leading to the central doorway, and is emphasized by the decorative flagstaffs which are situated on the terrace at the east and west.

The interior of the Museum building consists, in its general arrangement, of a great central hall or nave, flanked by transverse exhibition halls on both sides; these exhibition halls being again united by halls running parallel to the nave at either end of the building. The rest of the structure is divided into floors, all of which are devoted to exhibition purposes, with the ex-

ception of the third floor and the clerestories which are used as working space for the scientific staff.

The central hall, which is dedicated to Mr. Stanley Field, President of the Museum, contains four exceptionally fine statues designed by Henry Hering. These figures symbolize the purposes of the Museum and blend with the architectural treatment of the hall. The figures flanking the north archway represent "Natural Science" and the "Dissemination of Knowledge"; those at the south typify "Research" and "Record".

The James Simpson Theatre, which was built with funds provided by Mr. James Simpson, and a lecture hall occupy the western portion of the ground floor. They are reached by a special entrance from the west terrace, and also by a broad stairway from the first floor. The theatre is one hundred feet long, ninety-five feet wide, and twenty-three feet high. It seats one thousand and fifty-two persons. The architectural treatment is in accord with the rest of the building, and is Greek in character. The central seating space is surrounded on three sides by a Doric colonnade forming galleries fourteen feet wide. The fourth side is occupied by a stage adapted for moving pictures or for a speaker. The lecture hall, to the north of the vestibule, seats two hundred and fifty persons.

The present Museum building was planned and designed to provide for the following: first, perfect exhibition rooms for the display of scientific collections; second, adequate housing and equipment for the scientific and working staffs occasioned by such collections; third, a building which would attain the high standard of Greek architecture and hold a worthy place among the monumental structures of Chicago.

Exhibits

Exhibits in Field Museum of Natural History have been gathered by collectors, specialists in their respective departments of the natural sciences, who have been dispatched to many parts of the world for the purpose of accumulating exhibition and study material. So closely have they adhered to the best practice that today the Museum is noted for exactness and purity of method, and the material exhibited in the Museum is becoming more and more appreciated for its attractiveness, coordination, high educational value and economic usefulness.

The exhibits are grouped into four departments, Anthropology, Botany, Geology and Zoology. The collections in each department are arranged systematically under their respective divisions, descriptive labels being attached to all exhibits for the information of visitors.

Stanley Field Hall, which occupies the nave of the building, is an exception to the arrangement described, containing representative collections from each of the departments. These exhibits are intended to give a general glimpse of the activities of the institution as a whole, and to serve as an introduction to the systematic collections in the exhibition halls. The visitor, on entering the Museum, finds himself in this hall, and from here it is easy for him to find his way to any particular exhibition room.

Anthropology

Few sciences are of more absorbing interest than anthropology. To trace the evolution of man from the dim past, when he was scarcely more than a highly

developed animal, is an education in itself. The various races have not advanced uniformly in culture, but even the most backward challenge our admiration by the skill with which they have met and solved the problems presented by their environment. Primitive peoples stand out as mileposts on the road which we ourselves have traveled. The economic foundation of our civilization, which is based on agriculture and cattle-breeding, is the same as it was thousands of years ago in the civilizations of the ancient world. A study of the remains of the civilizations which flourished in Egypt, Mesopotamia and China, when our own ancestors were skin-clad barbarians just emerging from the stone age, cannot fail to broaden our outlook and increase our sympathy for mankind. The exhibits in this department are designed to show the achievements in arts and industries, as well as the social and religious life of the world outside of modern Europe and America, in both historic and prehistoric times.

Entering Mary D. Sturges Hall, immediately to the east of Stanley Field Hall, we find ourselves among the Eskimo, a people whose artifacts bear a curious resemblance to those of the races which lived in Europe at the close of the glacial period. The life of the Eskimo centers about the hunting of sea animals, and the proper note is at once struck by a life-size model of a hunter, seated in his frail but buoyant kayak, with his harpoon ready to strike. His boat, his costume, and the paraphernalia placed before him on the miniature deck, are all genuine and have seen use. Farther on, additional groups illustrate other features of Eskimo life. A girl is shown fishing through a hole in the ice, a man is laboriously drilling ivory, and a woman is

dressing a hide. A large group shows the return of a family from a winter hunt, with a seal on a sled drawn by dogs.

The eastern end of the hall shows the life of the Indians of the Northwest Coast. These tribes had developed a high culture centering about the salmon and the cedar. Their bizarre art, with its use of highly conventionalized animal forms, is illustrated by collections of carved and painted weapons, tools and utensils. A case of Chilkat blankets, presented by Mr. Edward E. Ayer, is of special interest as showing the way in which their artistic concepts, first developed in connection with wood carving and painting, were applied to textiles.

The western end of the next hall is devoted to the tribes of the eastern woodlands. Groups showing the summer and winter life of the Sauk and Fox are of peculiar interest to Chicagoans, for villages of the same type existed within the present city limits only two hundred years ago. The eastern end of this hall is devoted to the Salish tribes of the northern Pacific Coast, and to the somewhat backward tribes of the Rocky Mountain plateau. A life-size group illustrates the arts and industries of the Coast Salish.

The exhibits in Hall 5 illustrate the life of the plains tribes, the typical Indians of romance. The tribes of this area were dependent upon the horse and buffalo, although the horse was first brought to the New World by the Spaniards, and did not reach the plains until the early seventeenth century. The exhibits on the southern side of the hall are designed to give a synoptic view of the arts, industries and religious practices of the Cheyenne and Arapaho, selected

as typical of this area. Those on the northern side illustrate the life of the less typical groups among whom the Pawnee are specially noteworthy. The Pawnee exhibits include a complete set of objects used in the Calumet ceremony and several sacred bundles, while the principal religious ceremonies of the tribe are reproduced in four miniature groups.

The eastern end of Hall 6 is devoted to the California tribes and contains extensive exhibits of basketry and other rare and interesting material. The western end shows the arts and industries of the nomadic tribes of southwestern United States, with a Navaho group, and a noteworthy collection of Navaho blankets, presented by Mr. Homer E. Sargent.

All the American Indians were intensely religious, but there was no area in which ceremonialism was more highly developed than among the settled agricultural tribes of New Mexico and Arizona. All this is represented in Hall 7. These people live in an arid region, and their life is one long prayer for rain. They believe in a multitude of gods who are impersonated in their ceremonies by masked dancers. To familiarize their children with these gods, they make small, grotesquely painted, wooden figures which should be classed rather as dolls than as idols. These are shown in two cases. During the winter season there is a long series of ceremonies, for it is thought that the gods are then actually in the villages, and each ceremony has its characteristic altar. Many of these altars have been reproduced in the exhibits. The daily life of the Hopi is illustrated by a life-size group in which women are seen grinding corn and making pottery, while a man is weaving a blanket.

The Indians of Mexico and Peru developed civilizations of a high order which were wiped out by the Spanish conquest. On entering Hall 8, the eye is caught by a series of large casts which are, for the most part, reproductions of Maya monuments of the fifth and sixth centuries A. D. The inscriptions on these monuments have been partially deciphered, and show that they were erected in the principal cities at intervals of 1800 days. The Maya were remarkable astronomers and mathematicians. By the beginning of our era they had discovered the true length of the solar year, and used the zero in their computations. Nearly all their books were destroyed by the ignorant conquerors, but one of the three preserved contains astronomical calculations covering a period of five thousand years! The Aztec, who bulk large in the popular imagination, were mere parvenus when compared to the Maya. They were originally a savage people who forced their way into the valley of Mexico from the north, and did not become important until the fourteenth century. They built up a great plunder empire, comparable to that of Assyria in the Old World, but whatever civilization they attained was based on that of the older Toltec. A series of Aztec and Toltec objects is exhibited in the northern central portion of the hall.

The Peruvians never discovered the art of writing, but were in some ways even more advanced than the Maya. The Inca empire was a marvel of organization, and their skill as metal workers and weavers compares favorably with anything in the Old World. The dead were laid to rest with their property about them, and the extreme dryness of the coastal region has preserved even the most delicate fabrics. The

contents of several graves are exhibited at the eastern end of the hall.

The Isthmian region and the heavily forested parts of South America were occupied by less advanced tribes. The Jivaros of Ecuador possess a gruesome interest because of their practice of shrinking the decapitated heads of their enemies. Two of these prepared heads, scarcely larger than a man's fist, are on exhibition.

The anthropological exhibits cover all parts of the world, and in Hall 9 will be found representative collections from the Philippines. Life-size groups illustrate Igorot iron-working and pottery-making, while two attractive miniature groups show the daily life in an Igorot and a Tinguian village.

Joseph N. Field Hall, which occupies the western end of the main floor, is assigned to the islands of the South Pacific. The peoples of this region are melting away before the advance of civilization, and within a few years their old life will be only a memory. Their curious weapons and fantastic masks fire the imagination, while their rich and varied art provides a veritable mine for the designer in search of new ideas. The darker side of their life is portrayed by the preserved heads of their enemies and the remains of a cannibal feast.

Etruscan, Greek and Roman antiquities of great variety and interest are exhibited in the Edward E. Ayer Hall, which is immediately to the east and parallel to Stanley Field Hall. It is impossible not to admire the simple, strong, and yet highly artistic and utilitarian qualities of many of the objects. The Etruscan bronzes, sarcophagi, and funerary couch are worthy

of special attention, while the Roman wall paintings cannot be duplicated in America.

The Egyptian collection is in Ernest R. Graham Hall. The Museum is indebted for much of the material exhibited in this section to the generosity of Mr. Edward E. Ayer, Mr. Ernest R. Graham and President Stanley Field. In this hall it is possible to study the remains of a civilization which had become senile before our ancestors emerged into the light of history. Persistence of the personality after death was the chief tenet of Egyptian religion, and we owe most of our knowledge of their daily life to their efforts to provide for their future welfare. Indeed, in their passion for immortality, they came near achieving immortality for their mortal bodies. Here lies a lady named Tent-At, who lived in Thebes a thousand years before Christ was born. Not far off is a lady called Men, who was related to the Theban priests of Ammon. Padi-Mut, who was for years a doorkeeper of a temple at Thebes, rests close by. Most interesting of all is the shriveled crouching body of a woman of the predynastic period who was laid to rest at least six thousand years ago. At that time the Egyptians had not yet learned to mummify, but the hot sand in which the body was buried drew the moisture from it and preserved it. A large case holds an ancient mortuary boat of cedar-wood, which in the days of Sesostris III conveyed the dead across the Nile from Darfur to what they believed would be their last resting place. This exhibit is the gift of Mrs. Cyrus McCormick. An object of great interest is the curiously-cut leather corselet of a Theban priest, it being one of the only two in existence. In the excitement of the funeral these

important garments were evidently forgotten, and were not discovered until the body had been buried. A square hole was then cut in the rock door of the tomb, and the corselet sealed up in it. They were thus overlooked by tomb robbers, and have come down to us in perfect condition. Animals as well as human beings were mummified, and that the ancient mummifiers were not always honest is shown by a swathed figure, apparently the mummy of a jackal, which an X-ray photo proved to be empty. The mummifier had saved himself time and trouble by throwing away the animal and placing the elaborate wrappings designed for it around a core of cloth.

Among the objects of special interest will be found two Mastaba tombs, obtained through the cooperation of Mr. Edward E. Ayer, which are installed as they were found in their original setting, and are specially illuminated. One of these was the gift of Mr. Martin A. Ryerson, and held the mummy of Unis-Ankh. The other was a Museum purchase.

More familiar to most Americans are the Chinese and Japanese peoples. A visit to the Frank W. Gunsaulus and other halls will delight all who admire Eastern art in its many aspects. The Blackstone Expedition of 1908-10 with Dr. Berthold Laufer at its head, penetrated far into the forbidden land of Tibet, and returned laden with treasures from that country and from China, which are now on exhibition in the two gallery halls. The gorgeous dresses and masks which the Tibetans use in religious dances to cast out demons are fully representative, and are shown in a special Hall of Oriental Theatricals on the ground floor. There are extensive exhibits of ancient Chinese jade, bronze,

cast-iron, mortuary pottery, clay figures, porcelain and wood carvings, and the collection of ancient sculpture is unique. In the Japanese collection, the examples shown of the art of Hokusai and his followers are worthy of study, as are also the sword guards, swords, tapestry and women's costumes.

The above brief account of a few items in the Department of Anthropology is intended merely to indicate the value and interest of the exhibits. When it is stated that the number of objects in this department alone is over 160,000, the extent and scope of the various collections will be readily imagined.

Botany

In the Department of Botany every effort is made to give a comprehensive idea of the entire plant kingdom, its large range of forms and its relation to human life. It is a noteworthy point, in this connection, that this is the first time that Botany has been given space comparable to that of other departments in natural history museums. The department maintains a large herbarium, mostly of purely scientific interest, and economic reference collections of considerable extent. In exhibited collections, emphasis is laid on economic uses of plant materials, of interest not only to the casual visitor and the student of botany but of value to the student of economics and the business man.

The exhibits of the department occupy five halls. One of these, known as the "Hall of Plant Life" (Hall 29), is devoted to a display of characteristic plant forms from the lowest to the highest. Microscopic plants, such as bacteria and the minute algae, are represented as they are seen with the aid of the micro-

scope. Larger plants can sometimes be preserved for a long time by drying or otherwise but usually give a poor idea of their appearance in the living state. This is true of almost all the higher plants and for this reason they are shown in the exhibits in the form of reproductions, exact replicas of the living plants, which are produced in the Museum in laboratories maintained through the generosity of Mr. Stanley Field.

These plant reproductions which are a conspicuous feature of the Hall of Plant Life are supplemented in many cases with models illustrating on an enlarged scale various significant details of structure, such as sections of flowers, special plant mechanisms, et cetera. In addition they are accompanied by a selection of characteristic dry plant material pertaining to them, such as dried fruits and seeds, gums, fibres and other products.

Two halls are devoted almost entirely to plant economics, one of them especially to food plants, the other to plant materials utilized in industry.

The remaining two botanical halls contain collections of woods, respectively North American and foreign. In the North American wood hall a uniform scale of sizes is maintained by selecting for exhibition specimens having one half the average diameter of the species represented. Photographs of the trees in their summer and winter condition, distribution maps and labels supply essential information. The foreign wood collection is naturally less complete but is of great interest. South American, Australian, New Zealand and Japanese woods are particularly well represented and are often shown in their rough state as well as finished, polished and varnished.

The herbarium is on the third floor. It contains about 600,000 specimens. They are accessible, on application, to those specially interested.

Geology

The geological exhibits are classified in two groups, one illustrating the scientific, the other the economic and industrial relations of the mineral products of the earth. The arrangement of the scientific series corresponds to that generally adopted. In the economic series the exhibits are arranged in accordance with the uses to which they are put in commerce and industry.

The scientific series begins with an extensive collection showing the various mineral species. They are classified according to Dana's system. About seven hundred species are illustrated by 20,000 specimens. Supplemental to this, a large collection of crystals, presented to the Museum by Mr. W. J. Chalmers, illustrates the different forms of mineral crystallizations.

A very large meteorite collection may next be seen in this section. It contains representatives of nearly seven hundred falls, being in this respect the most complete collection in the world. A number of massive iron meteorites, the largest weighing nearly two tons, are included in the collection. Another section of the scientific division is devoted to physical geology. Here are illustrated rock structures and the effects of natural forces, such as glaciation, erosion, folding, etc., acting on the materials of which the earth is composed. A large collection illustrating the commoner varieties of rocks is also included in this section. The rock specimens are of uniform size, and are grouped according to kind and composition.

A large part of one hall in the scientific division is devoted to relief maps and models, about sixty of which are shown. These include representations and interpretations of such scenic features as the Yosemite Valley, Niagara Falls, Grand Cañon of the Colorado River and the Natural Bridge of Virginia. In the west end of this hall is a model of the Moon, 19 feet in diameter. It is, so far as is known, the largest and most elaborate representation of the Moon's surface ever made.

In the section of historical geology, or paleontology, the development of life on earth from the age of the simplest invertebrates to that of the highest forms is illustrated in historic sequence. The largest known land animals, the dinosaurs, are represented by a mounted partial skeleton, which stands twelve feet high, and is thirty feet long. This specimen was obtained in Colorado. Remains of other huge dinosaurs, including a skull of the great horned dinosaur, *Triceratops,* are also shown. Complete or partial skeletons of the extinct elephants, mammoth and mastodon, are exhibited, as well as skeletons of cave-bears, saber-toothed tigers and other animals contemporary with early man. Of a more remote period there are shown skeletons of American *Titanotheres,* camels and other primitive ungulates, and some of the various forms which developed into the modern horse. Of still earlier periods, extensive series fully illustrate the various terrestrial and marine forms, such as coal-plants, brachiopods, trilobites, etc., which characterized the earlier eras of life.

The economic geological collections are displayed in Frederick J. V. Skiff Hall and the next hall, Hall 36.

These collections are, as previously stated, arranged in groups according to their uses. At the east end of Frederick J. V. Skiff Hall are specimens of the gold, silver and lead ores of the world, geographically arranged by countries, states and mining districts. With them are placed models of a gold mine, a gold stamp-mill, a cyanide-plant and a lead blast-furnace, all of which illustrate methods of mining ores and of extracting the metals from them. In the same hall are shown ores of other heavy metals, the specimens in each collection being geographically arranged. Of these, the collections of iron ores are extensive and include models of three types of smelting furnaces. A series of ores of a number of elements, such as zirconium, titanium, radium and the so-called "rare earth" metals, which have unusual or not universally known uses, are shown, together with various manufactured articles illustrating such uses.

Westward from the center of the same hall is a large collection of building stones and marbles. Next to these are shown groups of alkalies, salts and various minor substances. These include barites, fluorites, abrasives, phosphates, asbestos, micas, borax, lime and gypsum.

In Hall 36 is shown a collection of crude petroleum and oil sands. These are followed by collections illustrating various uses of petroleum products, and a model of the original Rockefeller refinery at Cleveland. Following these is a collection of coals. In a large case near the center of this hall are exhibited numerous derivatives of coal obtained as by-products by the London Gas and Light Company, while other derivatives of American origin are shown in an adjoining case.

In the east half of the hall are exhibited collections of asphalts, oil shales and graphites and, in a separate case, various occurrences of the diamond. Near the center of the hall are two cases containing a collection of peat. The usual as well as some unusual uses of this material are displayed. This exhibit is further supplemented by a model showing the formation of peat in glacial lakes.

At the center of this hall and extending westward there are exhibited large collections of soil and clay. The soil collection is introduced by a case of specimens illustrating the origin of soil, the elements of which it is made, plant foods, and the primary grouping of soils into varieties. This is followed by two collections, one arranged and named according to the official classification of the United States Department of Agriculture, and the other according to the ordinary farmer's classification.

The clay collections, also in the west end of this hall, are extensive, and are arranged according to a plan which shows both their method of origin and their uses. With most of the clay specimens are displayed small bricks burned from them. There are also shown collections of clay-like minerals, mineral soaps and fuller's earths, and these are followed by cements and sands, and a model of an iron mine. A large and elaborate model, illustrating in detail the method of manufacturing Portland cement, is also shown in this hall.

H. N. Higinbotham Hall

In this hall is displayed one of the most complete collections of gems and jewels in existence. It contains

nearly every known variety of gems and of precious and semi-precious stones in the finest cut examples and as crystals, cleavages and rolled grains. Many of the specimens are of historic interest and world-wide reputation. Among these is a diamond on which the bust of William II of Holland was engraved by DeVrees of Amsterdam, the work requiring five years. A brilliant cut four carat diamond and several smaller ones, as well as many diamonds in the rough and in matrix are also shown. The celebrated Hope aquamarine is also on display. It is sea-green in color, and weighs 331⅝ carats. With it there is shown another beautiful aquamarine from Maine, the largest ever mined in the United States, this weighing 133 carats. Blue aquamarine is illustrated by a superb stone from Brazil which weighs 190 carats. There is also a series of cut topazes, both blue and yellow, those from Russia being especially large and richly colored. Among the opals should be noted the "Sun God" opal, also from the Hope collection. A polished turquoise from Persia weighing 235 carats, and one of the largest known, is exhibited. A number of cut amethysts from various localities are remarkable for their rich colors and large size. Among the uncut specimens is a topaz crystal from Brazil which weighs 90 pounds, and is practically all of gem quality. There are also shown crystallized emeralds of great beauty from Brazil, Colombia and the United States. In connection with the gems there is shown also a valuable collection of crystallized gold, gold wire, gold nuggets and crude platinum.

The nine cases arranged on the walls of this hall are worthy of careful inspection. They contain Egyptian jewelry, Greek and Roman cameos and intaglios,

a remarkable collection of jewelry from Algeria and India, and prehistoric American gold ornaments.

Zoology

The exhibits in the Department of Zoology consist of three main divisions: (1) a classified series where each important animal can be found in its proper place; (2) special exhibits of the animals of different countries showing their habits and natural surroundings; and (3) preparations of animals or parts of animals to illustrate facts, ideas and theories about them in their relation to each other and to man. When it is considered that there are 50,000 species of mammals, birds, fishes, and reptilians, and further that the insects, mollusks, crustaceans and other invertebrates runs into hundreds of thousands of species, it is evident that no museum can show more than a small part of them. With due reference to space and future development, therefore, the zoological exhibits of Field Museum are carefully selected and planned. They occupy the western half of the main floor of the Museum, and embrace the entire field of animal life from the lower invertebrates to the highest mammals. Four large halls are devoted to mammals, two to birds, one to fishes and marine fauna, one to reptiles, amphibians and insects, and one to osteology.

Mammals are arranged in two series, one being systematic, to show one specimen of each of the principal species; the other in habitat groups, showing the home life, so to speak, of especially interesting or important species. In the hall of systematic mammals one finds a connected series from the curious egg-laying *Ornithorhynchus* and the lowly marsupials to the

gorilla, chimpanzee and other man-like apes. Related species are associated in the same or adjoining cases, and the visitor will find, for example, all of the carnivorous animals together. Among them he will be able to distinguish the subordinate groups, as the cat family, the dog family, bear family, civet family and so on. The great division of ungulates or hoofed animals, on account of its importance and the large size of most of the species, is given space by itself in a separate hall.

In addition to the systematic series of mammals, there are two halls of habitat groups. Largest and most important is the hall of African game animals, containing the principal masterpieces of the well-known taxidermist and sculptor, Carl E. Akeley. The animals were secured by the Museum's expeditions to Somaliland and British East Africa and were especially selected and prepared. In technical quality of workmanship, in artistic arrangement and in fidelity to nature, they set a high standard in the art of taxidermy. Most noteworthy are the groups of African buffalo, the greater and lesser koodoos, hartebeest, beisa, wild ass and zebra. Other African groups include several interesting antelopes, wart hogs, hyænas and hunting leopards. Two huge African elephants, also the work of Carl Akeley, occupy the central space in Stanley Field Hall. Bronze groups by Mr. Akeley, also located in Stanley Field Hall, illustrate a native African lion hunt. These were presented by Mr. R. T. Crane, Jr.

Next in importance to the African groups are those of the larger American mammals, to which one entire hall is devoted. Of especial interest are four handsome groups of America's most common and best-loved

game animal, the white-tailed or Virginia deer. They illustrate the habits and appearance of this animal in the four seasons—spring, summer, autumn and winter —and show not only the care and growth of the young, but the changes in color of the adults from season to season and the interesting process of the growth, development and shedding of the antlers. Other American groups include the moose, elk, bison, prongbuck, musk ox, mountain sheep, mountain goat, beaver, grizzly bear and polar bear. Some of these groups are accompanied by painted backgrounds which serve to enhance the beauty of the exhibits and also to convey other facts about the habits of the animals and give a sense of realism otherwise unobtainable.

Asiatic, Australian and South American mammals are represented chiefly in the systematic series where there are many fine specimens, especially of the Asiatic species. A group of orangs represented in their forest home in Borneo and a group of proboscis monkeys from the same region are exhibited in Hall 22. The mammals of South America are mostly of small or medium size so this region provides only limited material for large groups. The only one thus far attempted shows the jaguar and its favorite prey, the peculiar amphibious capybara, the largest of all the rodents.

The classified collection of birds is arranged in two sections in Hall 21, the North American species on one side, the foreign birds on the other. Owing to the great popular interest in American birds, nearly all the known species are shown. In the foreign section, birds have been selected to show the principal types from the standpoint of classification, distribution and general interest. Thus the birds of paradise and certain game

birds, such as the pheasants, are more largely represented than other groups which, while equally important to the ornithologist, are of lesser general interest.

Hall 21 is the hall of habitat groups of birds and contains a series of beautiful groups with large painted backgrounds and completely represented natural conditions. Nearly all of these groups are North American and they include such interesting species as the golden eagle, California condor, northern loon, whooping crane, white pelican, flamingo and various ducks, gulls, terns and shore-birds. Some of these illustrate summer conditions and the nesting habits of the birds, while others are shown at the seasons when they gather in flocks. Among the latter may be mentioned a group of winter birds of Lake Michigan in a setting of ice floes and wintry skies. Still another is a group of wild turkeys in which a troup of these stately birds are shown wandering through a southern forest clothed in the rich colors of autumn—a sight to delight the heart of any hunter. Foreign birds are represented by several groups from the American tropics and the Pacific islands.

The fishes are well represented, the larger part of the collection being arranged systematically. Sharks and rays, eels, armored ganoids or garfishes, and other ancient types, have their place at the beginning of the series and lead on to the numerous divisions of the higher bony fishes. One of the most interesting cases in this series is that of the mackerel family, including smooth-bodied, fast-swimming types such as the common mackerels, the dolphins, pompanos, and also such striking species as the sailfish and the swordfish. In addition to the classified series there are also sea bottom

groups of certain highly colored tropical fishes and special cases devoted to Atlantic and Pacific game fishes and to the Chicago market fishes.

The display of reptiles and amphibians, while not extensive, is being rapidly developed by new methods of preparation and includes various lifelike celluloid models of small snakes, frogs and toads which are of unusual excellence. By the same methods certain large reptiles have been prepared, including the large South American snake known as the anaconda, and a large group of American crocodiles in their natural environment.

The osteological exhibits are large and comprise complete skeletons representing almost every important group of vertebrates. Of especial interest are the skeletons of the higher apes and monkeys arranged for comparison with the skeleton of a man. Skeletons of large size include those of the Indian elephant and the right whale. One of the noteworthy exhibits is an assembled skeleton composed of original bones of the extinct bird, the great auk.

In addition to the public exhibition collections, the Department of Zoology has large research or study collections which are accessible to specialists and students, and which, upon application, may be consulted by anyone interested. The research collection of mammals contains about 28,000 specimens, and is one of the most important collections of its kind in the world. The collection of birds numbers some 65,000 specimens, and is particularly rich in West Indian and South American examples. The fish and reptile collection is large and includes much material from Central America. The insect collection is mainly local except

in the case of butterflies and moths, of which there are more than 50,000 specimens from all parts of the world.

The Library

The Library consists of a general library and four departmental libraries that correspond to the scientific departments represented in the Museum. The Library was primarily inaugurated to assist the staff in their work and as the work expanded to also interest the Museum visitors for, as the Departments seek to interest and instruct its visitors by the exhibits, so the Library endeavors to supply books descriptive of these subjects.

In the reading room of the Library are files of the current scientific periodicals and publications of contemporary societies and institutions throughout the world. Here also are the more general reference works, the more specific works being in the departmental libraries.

The Edward E. Ayer Library of Ornithology forms a special collection of works on this subject that is of great assistance to those interested in birds of all countries. It contains many of the rare and beautifully illustrated works of Audubon, Bonaparte, Buffon, Elliot, Gould, Lilford, Sclater, Seebohm, Temminck, Wilson and other authoritative writers. Mr. Ayer has continued to make additions to the library as opportunities were presented until it has become one of the most complete in the country. Mr. Ayer has also presented a rare and unique collection of some sixteen hundred works on angling and ichthyology, which is being supplemented from time to time when desirable works can be obtained.

The libraries of the Museum offer for reference use over 85,000 books and pamphlets. The curators of all departments cooperate with the Library and, wherever necessary, specialists are accessible for expert advice and counsel.

The N. W. Harris Public School Extension

The N. W. Harris Public School Extension is, in effect, a traveling museum. A study of the records of attendance showed that the number of school children who visited the Museum had never been as large as was desired. In order to extend the educational influence of the Museum among these children, an endowment of two hundred and fifty thousand dollars was provided by the late Norman Wait Harris in 1911. Later one hundred and twenty-five thousand dollars was added to this endowment by the heirs of the Harris estate.

The interest on this benefaction is being expended by the Department in the preparation of and the loaning and delivering to the schools and community centers of Chicago, small cases containing attractive and instructive exhibits of mammals, birds, insects, fishes, reptiles and plants that are to be found in and around Chicago. In many of these cases the natural surroundings of the specimens are shown. There are also cases containing materials which illustrate the development of manufactured products from the raw material to the finished articles.

There are now about nine hundred cases that have been completed and are available for loaning to schools. Other cases are being added from time to time. The present system of loaning cases to schools calls for the circulation of approximately eight hundred cases

among 350 schools during the school year. At the beginning of the school year, two cases are delivered to each of the schools, where they remain for two weeks. At the end of that time these cases are collected and taken to other schools, and two other cases are left for those taken away. A schedule governs this procedure throughout the school year. Cases are delivered to schools by means of specially designed motor trucks.

A few typical cases of this series are exhibited in Stanley Field Hall. The success of this movement has been greatly aided by the hearty cooperation given by the Superintendent of the Public Schools of Chicago, as well as the principals and teachers under his direction.

Educational Work in the Museum

The educational work of Field Museum is rapidly increasing in scope and effectiveness. During the spring and autumn, popular illustrated lectures by prominent scientific men are given without charge every Saturday afternoon in the James Simpson Theatre. On Saturday mornings during the school year, entertainments are given for children under sixteen years of age.

The daily educational work of the Museum is carried on by a staff of guide-lecturers, especially trained for their task, who give lectures on museum subjects, illustrated by tours of the exhibition halls. These tours are made regularly, Monday, Tuesday, Wednesday and Friday of each week, at 11 a. m. and at 3 p. m. A portion, only, of the museum is included in each one of these tours but they are so arranged that in the course of each week the entire Museum is included. Special conducted tours may be arranged by any group

of ten or more individuals by making application to the Director one week in advance of the intended visit. This service is free and is particularly for the benefit of schools, clubs and conventions.

During the summer vacation months, a course of instruction in museum exhibits is offered to a limited number of children recommended by members of Field Museum.

A new educational activity is the introduction of a series of extension lectures which is being given in Chicago public schools. Lectures for members of the Museum are also frequently given on Sunday afternoons in the James Simpson Theatre.

Publications

The issue of a series of publications was begun early in the history of Field Museum. These have been published in the following series: Report, Anthropological, Botanical, Geological, Ornithological, Zoological, Design, Technique, Memoirs, Guide and Leaflet. More than two hundred and ninety of these publications have been issued up to the present. Among them are excellent treatises and monographs, booklets of popular interest, and numerous reports of scientific interest. These publications have a wide circulation among other museums, scientific societies and educational institutions, with many of which an exchange system has been established. A list of the publications may be obtained by application to the Director.

In recent years a series of popular illustrated leaflets, treating of museum exhibits, has been issued. The Design Series is of particular interest to students of art and design. Museum methods and practices are

dealt with in the Technique Series. In a special series of scientific publications of the Department of Anthropology, called Memoirs, is being published the results of expeditions of especial merit and permanent value.

The Museum has a modern printing equipment and does its own photographic, photogravure and art work. In addition to printing all of the publications, the Museum Press prints advertising color posters, photogravures and color illustrations for the publications and post cards, and the numerous labels for the exhibits.

Expeditions

In this treasure-house world, it is only permitted to the untiring seeker into the minutiæ of nature, whether at home or abroad, to discover the riches which it holds in store. Realizing this, it has been the policy of all great museums to send expeditions into the field to attempt, through painstaking study and research, the discovery of new and old treasures. The Museum holds a proud record for field investigation during its comparatively short history. Its investigators have gone forth, singly and in groups, into practically every part of the world to gather specimens and exhibits for study and display in the Museum. The immense cost of these expeditions has been mainly borne by private persons whose names appear on another page. It is through these expeditions that the Museum has gained most of its exhibits and has been able to secure and maintain its high degree of completeness and accuracy. During recent years most of the expeditions in the field have been financed by Captain Marshall Field.

The Blackstone Expedition, under the leadership of Dr. Berthold Laufer, spent three years (1908-10)

in China and Tibet, bringing back exhibits of extreme interest and rarity. This collection received important additions as a result of Dr. Laufer's shorter expedition to China in 1923. Other archaeological and ethnological expeditions have included the R. F. Cummings expedition to the Philippine Islands, conducted by Dr. Fay-Cooper Cole, Dr. William Jones and Mr. S. C. Simms; Dr. George A. Dorsey's collections in Peru, India, Ceylon, Java, Australia, New Ireland, Buka, Bougainville, New Guinea and the Philippines; the Joseph N. Field researches in the islands of the South Pacific Ocean, under the leadership of Dr. A. B. Lewis; the Arthur B. Jones expedition in Sumatra, Java and Borneo; and numerous expeditions in North, South and Central America. Exhaustive studies have been made of the Indians of North America, Mexico and Peru. Mr. J. A. Mason headed the Captain Marshall Field Expedition to Columbia in 1923. In addition to the above expeditions, the Museum has, for three years, been conducting in cooperation with Oxford University the excavation of the ancient city of Kish, in Mesopotamia. Dr. Ralph Linton is, at the date of publication of this Manual, conducting an expedition in Madagascar.

Many botanical expeditions went out from the Museum under the direction of the late Dr. C. F. Millspaugh who was the curator of the Department of Botany for thirty years. Mr. Allison V. Armour took several expeditions to the West Indies and to Yucatan. Between the years 1904 and 1911, a botanical exploration was made of the Bahama Islands in conjunction with the New York Botanical Garden. The collecting of the woods now exhibited in the North American wood hall extended over many years and into various sections of the United States. A botanical survey has

been made of some of the Florida Keys and an exhaustive study made of the Catalina Island flora. In the interest of the Department, Dr. Millspaugh visited the main botanical gardens of Japan, China, the Philippine Islands, Java, Ceylon, and India. A botanical exploration of the Peruvian Andes, begun in 1922, has been carried on by Mr. J. F. Macbride and by Dr. A. Weberbauer. Collections of tropical forest trees, of palms and of material for the exhibits in the Hall of Plant Life were made in British Guiana from 1922 to 1925.

Dr. Oliver C. Farrington has conducted expeditions for the Department of Geology into Mexico, Brazil and various parts of the United States. Mr. H. W. Nichols has made extensive collections of ores and minerals in the Mississippi Valley, the Appalachian Mountains and in other parts of this country. Mr. E. S. Riggs and his associates have collected paleontological specimens in Colorado, South Dakota, Alberta, Argentina and Bolivia.

The first African expedition of the Department of Zoology, which went to Somaliland in 1896-97 under the leadership of Dr. D. G. Elliot, accompanied by Mr. Carl E. Akeley, obtained material for most of the groups of African mammals now on exhibition. A second African expedition in 1906-07, headed by Mr. Akeley and Mr. Edmund Heller, obtained some twenty-five hundred specimens. An expedition under the leadership of Mr. Heller has recently completed a collecting trip in Central Africa where specimens of gorillas, okapi and other rare animals were obtained. The James Simpson Roosevelt Asiatic Expedition, carried out by Col. Theodore and Mr. Kermit Roosevelt and Mr. George K. Cherrie, enjoyed much success in Turkestan,

the Pamirs, and India. Numerous expeditions have been sent to all parts of the Americas, notable among these being Dr. S. E. Meek's most successful collecting of fishes in Mexico and Central America, visiting Panama before the canal was completed, and the expedition under Dr. W. H. Osgood and Mr. M. P. Anderson which crossed South America from Peru to the eastern coast of Brazil. An important expedition to Chile was made in 1922-23 by Dr. Osgood and Messrs. C. C. Sanborn and H. B. Conover. Since 1924, Field Museum has been participating in the zoological results of the Third Asiatic expedition of the American Museum. Mr. H. B. Conover, Mr. R. H. Everard and Mr. John T. Zimmer are, at the date of publication, collecting specimens in Central Africa.

The Rawson-MacMillan Sub-Arctic Expedition during the summer of 1926 to Labrador, Greenland and Baffin Land will be led by Captain Donald B. MacMillan. This expedition will collect material for all departments of the Museum. In June, 1926, the Captain Marshall Field Brazilian Expedition will leave for an extended exploration of Brazil and neighboring countries. This expedition will be made up of ten members, the zoological section being led by Mr. George K. Cherrie, the botanical section by Dr. B. E. Dahlgren and the geological section by Mr. Henry W. Nichols. Mrs. Marshall Field and Mrs. Grace Thompson Seton will accompany this expedition.

Sources of Income

Income for the support of the Museum is derived from several sources. The citizens of Chicago have confirmed legislation for the levy of a tax which provides approximately one hundred and seventy-five

thousand dollars yearly. There is also an endowment fund of about five million dollars, the interest only of which is used. Other receipts come from the interest on a gift of fifty thousand dollars from Mrs. Mary D. Sturges, from memberships and from small amounts paid in admissions, a nominal fee being charged to adults, four days of the week.

Expeditions are financed largely by special contributions. Among those who have given funds for this purpose are: Mr. Joseph N. Field (South Pacific Islands); Mr. Allison V. Armour (West Indies and Yucatan); Mrs. T. B. Blackstone (China and Tibet); Mr. Stanley McCormick (Arizona-Hopi); Mr. Stanley Field (British Guiana); Mr. Arthur B. Jones (Malay Archipelago); Mr. Robert F. Cummings (Philippine Islands); Mr. Julius Rosenwald and Mrs. Augusta N. Rosenwald (North America); Mr. James Simpson (Central Asia); Mr. H. B. Conover and Mr. R. H. Everard (Central Africa); Mr. Frederick H. Rawson (Sub-Arctic); and Captain Marshall Field, who, in addition to having financed individual expeditions in the past has given an annuity of one hundred thousand dollars to the Museum, much of which is being used for expeditions.

GENERAL INFORMATION

Location

Field Museum is located in Grant Park on Lake Michigan, the main entrance facing Roosevelt Road. The Illinois Central main and suburban station on Roosevelt Road is within two blocks of the Museum. Surface and elevated lines and buses also provide transportation to within a few blocks of the Museum.

On Thursdays, Saturdays and Sundays admission is free. On other days an admission fee of 25 cents is charged to adults. **Children are admitted free on all days.** Students, professors and teachers in attendance at any recognized University, College, School or Institute are admitted free upon presentation of proper credentials. No return admission checks are issued.

Hours and Rules of Admission

The Museum is open to the public during the following hours:

November, December, January	**10 a. m. to 4 p. m.**
February, March, April, October	**10 a. m. to 5 p. m.**
May, June, July, August, September	**10 a. m. to 6 p. m.**

Checking

Canes, umbrellas and parcels must be checked at the entrances. A fee of 5c is charged for this service.

Wheel Chairs

Visitors desiring the use of wheel chairs may obtain them at the main (north door) entrance. A fee of 25 cents per hour is charged for chairs and attendants must be furnished by the applicants.

Information

Information concerning the Museum may be secured at the north entrance where the publications of the Museum and Picture Post Cards are sold. Copies of many photographs made by the Museum photographer are also on sale there.

Lunch Rooms

There is a cafeteria on the ground floor where meals and refreshments may be obtained between 11 a. m. and 3 p. m. Accommodations are also provided in rooms near the cafeteria for school children and parties who provide their own lunches.

Special Privileges

Sketching and photographing in the Museum are permitted under certain restrictions, details of which are obtainable upon application to the Director.

The Research Collections and Laboratories, which are on the third floor, are not open to the public, but may be visited by students, specialists and members of the Museum upon application to the Director and with the approval of the Curators.

Museum Tours and Guide-Lecture Service

On Monday, Tuesday, Wednesday and Friday of each week, at 11:00 in the morning and at 3:00 in the afternoon, the Guide-Lecturers conduct tours through the Exhibition Halls of the Museum. Each tour lasts about one hour and may be taken by any visitor without charge.

Classes in charge of teachers or parents will be given a general tour of the Museum or a special tour with instruction on subjects which correlate with their work in the public schools. Any group of ten or more persons may also avail themselves of this privilege. Such visits should be arranged for either in person or by letter or telephone.

Memberships

The Museum has several classes of members. A few of these are defined here, but the reader is referred to the By-Laws, printed elsewhere in the Manual, for fuller information. Benefactors are members who give or devise $100,000. Fellows are those who give or devise $5,000, and they have the privilege of appointing their successors in perpetuity. Life Members are those who give $500. They are exempt from dues and enjoy privileges extended to Members of the Board of Trustees. Non-Resident Life Members and Associate (Life) Members are those who pay $100. They are exempt from dues and also enjoy privileges extended to Members of the Board of Trustees. Sustaining Members contribute annually $25. After six years they become automatically Associate (Life) Members. Annual Members contribute annually $10. They are entitled to the publications of the Museum on request, and to special privileges in the way of attendance, etc.

ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State.*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(*Signed*)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

COOK COUNTY
STATE OF ILLINOIS ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL] NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the

COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3.

Pursuant to a resolution at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS

(APRIL 1, 1926.)

ARTICLE I

MEMBERS

SECTION 1. Members shall be of eleven classes, Corporate Members, Honorary Members, Patrons, Benefactors, Fellows, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Life Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty ($20.00) dollars or more. Corporate Members becoming Life Members, Patrons or

Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustee is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of one hundred thousand dollars, ($100,000.00), in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Any person contributing the sum of five thousand dollars, ($5,000.00), in cash or securities to the funds of the Museum, may be elected a Fellow of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in said Fellowship.

SECTION 7. Any person paying into the treasury the sum of five hundred dollars, ($500.00), at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of one hundred dollars, ($100.00), at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 8. Any person paying into the treasury of the Museum the sum of one hundred dollars, ($100.00), at any one time, shall upon the unanimous vote of the Board, become an Associate Member. Associate Members shall be entitled to: tickets admitting member and members of family, including non-resident home guests; all publications of the Museum, if so desired; reserved seats to all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the

sum of fifty dollars, ($50.00), at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Life Member. Non-Resident Associate Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 9. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of twenty-five dollars, ($25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the member to free admission for the member and family to Museum on any day and allows 25 admission coupons, which may be used by any one, the Annual Report and such other Museum documents or publications as may be requested in writing. When a Sustaining Member has paid the annual fee of $25.00 for six years, such member shall be entitled to become an Associate Member.

SECTION 10. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars, ($10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the member to a card of admission for the member and family during all hours when the Museum is open to the public, and free admission for the member and family to all Museum lectures or entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every Museum of note in the United States and Canada, so long as the existing system of cooperative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the cooperative museums are located.

SECTION 11. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held monthly. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, those Trustees who by reason of inability, on account of change of residence, or for other cause or from indisposition to serve longer in such capacity shall resign their place upon the Board, may be elected by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation except as hereinafter provided. He shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely the President or one of the Vice-Presidents, jointly with the Chairman or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of Field Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific departments of the Museum — Anthropology, Botany, Geology and Zoology; each under the charge of a Curator, subject to the authority of

the Director. The Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific departments shall be appointed and removed by the Director upon the recommendation of the Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work of the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all vouchers for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension and Executive.

SECTION 2. The Finance Committee shall consist of five members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman

of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other permanent funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell, and reinvest funds, subject to the approval of the Board.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures as stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board, each year a Nominating Committee of three shall be chosen by lot. Said Committee shall make nomination for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. These By-Laws may be amended at any regular meeting of the Board of Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

BENEFACTORS

Ayer, Edward E.
Buckingham, Miss Kate S.
*Field, Joseph N.
Field, Marshall III
Field, Stanley
Graham, Ernest R.
Harris, Albert W.
*Harris, Norman W.
*Higinbotham, Harlow N.
*Pullman, George M.
Raymond, Mrs. Anna Louise
*Raymond, James Nelson
Simpson, James
*Sturges, Mrs. Mary D.

HONORARY MEMBERS

Ayer, Edward E.
Ayer, Mrs. Edward E.
Blackstone, Mrs. T. B.
Breasted, James H.
Chalmers, William J.
Crane, Charles R.
Crane, Richard T. Jr.,
Field, Marshall III
Field, Stanley
Graham, Ernest R.
Gustaf Adolf, H. R. H., Crown Prince of Sweden
Harris, Albert W.
Jones, Arthur B.
Keep, Chauncey
McCormick, Stanley
Rosenwald, Mrs. Augusta N.
Rosenwald, Julius
Ryerson, Martin A.
Simpson, James
Sprague, Albert A.

PATRONS

Armour, Allison V.
Butler, Edward B.
Cherrie, George K.
Collins, Alfred M.
Cummings, Mrs. Robert F.
Cutting, C. Suydam
Day, Lee Garnett
Ellsworth, Duncan S.
Kelley, William V.
Kennedy, Vernon Shaw
Kunz, George F.
Markham, Charles H.
Payne, John Barton
Probst, Edward
Roosevelt, Kermit
Roosevelt, Col. Theodore
Sargent, Homer E.
Strawn, Silas H.
White, Howard J.

*Deceased

CORPORATE MEMBERS

Armour, Allison V.
Ayer, Edward E.

Blair, Watson F.
Borden, John
Butler, Edward B.
Byram, Harry E.

Cherrie, George K.
Chalmers, W. J.
Chatfield-Taylor, H. C.
Collins, Alfred M.
Crane, Richard T., Jr.
Cummings, Mrs. Robert F.
Cutting, C. Suydam

Davies, D. C.
Day, Lee Garnett

Eastman, Sidney C.
Ellsworth, Duncan S.

Field, Marshall III
Field, Stanley

Gage, Lyman J.
Graham, Ernest R.

Harris, Albert W.

Jones, Arthur B.

Keep, Chauncey
Kelley, William V.
Kennedy, Vernon Shaw
Kunz, George F.

McCormick, Cyrus H.
Markham, Charles H.
Mitchell, John J.

Payne, John Barton
Porter, George F.
Probst, Edward

Roosevelt, Kermit
Roosevelt, Col. Theodore
Ryerson, Martin A.

Sargent, Homer E.
Simpson, James
Smith, Solomon A.
Sprague, Albert A.
Stone, Melville E.
Strawn, Silas H.

White, Howard J.
Wrigley, William, Jr.

Deceased 1925

Aldis, Owen F.

Ellsworth, James W.

LIFE MEMBERS

Abbott, Robert S.
Aldis, Arthur T.
Alexander, William A.
Allerton, Robert H.
Ames, James C.
Ames, Knowlton L.
Armour, A. Watson
Armour, Allison V.
Armour, J. Ogden
Armour, Lester
Avery, Sewell L.
Ayer, Edward E.

Babcock, Frederick R.
Bacon, Edward Richardson, Jr.
Baker, Miss Isabelle
Banks, Alexander F.
Barrett, Mrs. A. D.
Barrett, Robert L.
Bassford, Lowell C.
Bendix, Vincent
Billings, C. K. G.
Billings, Dr. Frank
Blackstone, Mrs. T. B.
Blaine, Mrs. Emmons
Blair, Henry A.
Blair, Watson F.
Block, L. E.
Block, Philip D.
Blythe, Hugh
Booth, W. Vernon
Borden, John
Borland, Chauncey B.
Brewster, Walter S.
Brown, William L.
Buchanan, D. W.
Buffington, Eugene J.
Burnham, John
Butler, Edward B.
Butler, Julius W.
Byram, Harry E.

Carpenter, Augustus A.
Carpenter, Benjamin
Carpenter, Mrs. Hubbard
Carr, Robert F.
Carry, Edward F.
Carton, L. A.
Chalmers, William J.
Chalmers, Mrs. William J.
Clark, Eugene B.
Clay, John
Clow, William E.
Conover, H. Boardman
Copley, Col. Ira Cliff, (N. R.)
Cowles, Alfred
Cramer, Corwith
Cramer, E. W.
Cramer, Mrs. Katharine S.
Crane, Charles R.
Crane, Richard T., Jr.
Crossett, Edward C.
Crowell, H. P.
Cudahy, Edward A., Sr.
Cudahy, Joseph M.
Cummings, D. Mark
Cunningham, Frank S.
Cutten, Arthur W.

Dau, J. J.
Dawes, Charles G.
Day, Albert M.
Decker, Alfred
Deering, Charles
Defrees, Joseph H.
Delano, Frederic A.
Dick, Albert Blake
Dierssen, Ferdinand W.
Donnelley, Reuben H.
Donnelley, Thomas E.
Douglas, James H.
Drake, John B.
Drake, Tracy C.

Eckhart, B. A.
Edmunds, Philip S.

Fair, Robert M.
Farnum, Henry W.
Farr, Miss Shirley
Farwell, Arthur L.
Farwell, Francis C.
Farwell, John V.
Farwell, Walter
Fay, C. N.
Felt, Dorr E.
Fenton, Howard W.
Ferguson, Louis A.
Ferry, Mrs. Abby Farwell
Field, Joseph Nash II
Field, Marshall III
Field, Mrs. Sara Carroll
Field, Stanley
Finley, William H.
Fleming, John C.
Forgan, David R.
Forsyth, Robert
Fyffe, Colin C. H.

Gartz, A. F.
Gary, Mrs. John W.
Getz, George F.
Glessner, John J.
Goddard, Leroy A.
Goodman, William O.
Goodrich, A. W.
Gowing, J. Parker
Graham, Ernest R.
Griscom, Clement A.

Hack, Frederick C.
Hamill, Ernest A.
Harris, Albert W.
Harris, Norman W.
Haskell, Frederick T.
Hastings, Samuel M.
Heyworth, James O.
Hibbard, Frank
Hill, Louis W.
Hinde, Thomas W.
Hippach, Louis A.
Hopkins, J. M.
Hopkins, L. J.
Horowitz, L. J.
Hoyt, N. Landon
Hughes, Thomas S.
Hughitt, Marvin

Insull, Samuel
Insull, Samuel, Jr.

Jelke, John F.
Jelke, John F., Jr.
Johnson, Mrs. Elizabeth Ayer
Jones, Arthur B.
Jones, Thomas D.

Keep, Chauncey
Keller, Theodore C.
Kelley, Mrs. Daphne Field
Kelley, Russell P.
Kelley, William V.
King, Charles Garfield
King, Francis
King, James G.
Kirk, Walter Radcliffe
Kittle, C. M.
Knickerbocker, Charles K.
Kuppenheimer, Louis B.

Lamont, Robert P.
Landon, Mrs. Jessie Spalding (N. R.)
Lehmann, E. J.
Leonard, Clifford M.
Linn, W. R.
Logan, Spencer H.
Lord, John B.
Lowden, Frank O.
Lytton, Henry C.

Mac Dowell, Charles H.
Mac Veagh, Franklin
Mark, Clayton
Markham, Charles H.

Marshall, Benjamin H.
Martin, William P., Sr.
Mason, William S.
McCormick, Cyrus H.
McCormick, Mrs. Edith Rockefeller
McCormick, Harold F.
McCormick, Stanley
McElwee, Robert H.
McInnerney, Thomas H.
McKinlay, John
McKinlock, George A.
McLaughlin, Frederic
McLaughlin, George D.
McLennan, D. R.
McLennan, Hugh
McNulty, T. J.
McWilliams, LaFayette
Meyne, Gerhardt F.
Miner, W. H.
Mitchell, J. J.
Moore, Edward S.
Morse, Charles H., Jr.
Morton, Joy
Morton, Mark
Munroe, Charles A.

Newell, A. B.
Nikolas, G. J., Sr.
Noel, Joseph R.

Oakley, Horace S.
O'Brien, John J.
Ormsby, Dr. Oliver S.
Orr, Robert M.

Paesch, Charles A.
Palmer, Honore
Palmer, Potter
Patten, Henry J.
Patten, Mrs. James A.
Patterson, Joseph M.
Payne, John Barton
Payson, George S.
Peabody, Augustus S.
Perkins, Herbert F.
Pick, Albert
Pierce, Charles I.
Piez, Charles
Pike, Charles B.
Pike, Eugene R.
Poppenhusen, Conrad H.
Porter, Frank W.
Porter, George F.
Porter, Gilbert E.
Porter, H. H.

Rawson, Frederick H.
Raymond, Mrs. Anna Louise
Rea, Mrs. Robert L.
Revell, Alexander H.
Reynolds, George M.
Riley, Harrison B.
Robinson, Theodore W.
Robson, Miss Alice
Rodman, Mrs. Katherine Field
Rodman, Thomas Clifford
Rosenwald, Julius
Runnells, Clive
Runnells, John S.
Russell, Edmund A.
Russell, Edward P.
Ryerson, Mrs. Carrie H.
Ryerson, Edward L.
Ryerson, Martin A.

Schweppe, Charles H.
Scott, Frank H.
Scott, George E.
Scott, Harold N.
Scott, John W.
Shaffer, John C.
Shedd, John G.
Simpson, James
Simpson, William B.
Smith, Alexander
Smith, Solomon A.
Soper, James P.
Spalding, Keith
Spaulding, Mrs. Howard H., Jr.

Spoor, John A.
Sprague, Albert A.
Stearns, Charles B., Sr.
Stevens, Charles A.
Stewart, Robert W.
Stirton, Robert C.
Storey, W. B.
Stout, Frank D.
Strawn, Silas H.
Stuart, Robert
Studebaker, Clement, Jr.
Sturges, George
Sunny, B. E.
Swift, Charles H.
Swift, Edward F.
Swift, G. F., Jr.
Swift, Harold H.
Swift, Louis F.

Thorne, Charles H.
Thorne, Robert J.
Trinz, Joseph

Uihlein, Edgar J.

Valentine, Louis L.
Van Vetchten, Ralph
Veatch, G. L.
Viles, Lawrence M.

Wacker, Charles H.
Warner, Ezra Joseph
Weber, David
Welling, John P.
Wetmore, Frank O.
Wheeler, Charles P.
White, F. Edson
Whitney, Mrs. Julia L.
Wickwire, Mrs. Edward L.
Wieboldt, William A.
Willard, Alonzo J.
Willits, Ward W.
Wilson, John P., Jr.
Wilson, Oliver T.
Wilson, Thomas E.
Wilson, Walter H.
Winston, Garrard B.
Winter, Wallace C.
Woolley, Clarence M.
Wrigley, William, Jr.

Yates, David M.

Deceased 1925

Aldis, Owen F.
Bancroft, Edgar A.
Barrell, Finley
Becker, A. G.
Bridge, Norman
Deering, James
Fernald, Gustavus S.
Hollis, William D.
Hulburd, Charles H.
Lawson, Victor F.
Pam, Max
Upham, Frederick

ASSOCIATE MEMBERS

Aaron, Charles
Abbott, Donald Putnam, Jr.
Abbott, William L.
Abbott, W. R.
Abrams, Duff A.
Acomb, Jesse P.
Adams, Joseph
Adcock, Mrs. Bessie
Addleman, Samuel W.

Adler, Max
Ahlschlager, Walter W.
Allbright, William B.
Alschuler, Alfred S.
Alsip, Charles H.
Andrews, Alfred B.
Andrin, Miss Katherine L.
Armbruster, C. A.
Armour, Philip D.
Armour, Mrs. Philip D.
Armstrong, Mrs. Frank H.
Asher, Louis E.
Atwater, Walter Hull
Aurelius, Mrs. Marcus A.
Austin, Henry W.
Austrian, Alfred S.

Babson, Fred K.
Babson, Henry B.
Baer, Walter S.
Baird, Harry K.
Baird, Wyllys W.
Baker, Mrs. Alfred L.
Baker, L. K.
Ballenberg, Adolph G.
Barnes, Cecil
Barnes, James M.
Barnhart, Mrs. A. M.
Bartholomay, Henry
Bartholomay, Mrs.
William, Jr.
Bartlett, Miss Florence D.
Bastian, Charles L.
Bateman, Floyd L.
Battey, Paul L.
Bauer, Alex
Baum, Mervyn
Becker, Benjamin F.
Becker, Benjamin V.
Becker, Herman T.
Becker, Louis
Beidler, Francis II
Beil, Carl
Bell, Lionel A.
Bell, Robert W.
Bender, Charles J.
Bensinger, Benjamin E.
Benson, John
Bentley, Arthur
Bentley, Cyrus
Bichl, Thomas A.
Bidwell, Chas. W.
Bigler, Mrs. Albert J.
Billow, Elmer E.
Blackman, Nathan L.
Blair, Edward T.
Blake, Tiffany
Blatchford, Carter
Blatchford, N. H., Sr.
Block, Emanuel J.
Blome, Rudolph S.
Blum, David
Blum, Harry H.
Boal, Ayres
Bodman, Mrs. Luther
Boericke, Mrs. Anna
Bolter, Joseph C.
Bondy, Berthold
Boomer, Dr. Paul
Booth, Alfred
Borland, Mrs. Bruce
Born, Moses
Bosch, Charles
Both, William C.
Bowen, Mrs. Louise
De Koven
Bowes, Mrs. Frances W.
Boyd, Thomas M.
Boyden, Miss Ellen Webb
Boyden, Miss Rosalie S.
Boyden, Mrs.
William C., Jr.
Boynton, Mrs. C. T.
Boynton, Frederick P.
Bradley, J. Dorr
Brassert, Herman A.
Braun, Mrs. Martha E.
Bremner, Mrs. David F.
Brennan, Bernard G.
Bridge, George S.

Brigham, Miss Florence M.
Brock, A. J.
Broome, Thornhill
Bross, Mrs. Mason
Brown, A. W.
Brown, A. Wilder
Brown, Benjamin R.
Brown, Charles E.
Brown, Christy
Brown, Mrs. George Dewes
Brown, Dr. Edward M.
Browne, Aldis J.
Bruckner, William T.
Brugman, John J.
Brundage, Avery
Bryant, John J., Jr.
Buck, Guy R.
Buck, Nelson Leroy
Budd, Britton I.
Budlong, Joseph J.
Buffington, Mrs.
Margaret A.
Bullock, Carl C.
Burley, Clarence A.
Burnham, Mrs. E.
Burt, William G.
Busby, Leonard A.
Bush, David D.
Bushnell, Charles E.
Butler, Mrs. Hermon B.
Butler, Paul
Butler, Rush C.
Butz, Robert T.
Buzzell, Edgar A.

Cahn, Dr. Alvin R.
Cameron, John M.
Campbell, Delwin M.
Capps, Dr. Joseph A.
Caron, O. J.
Carpenter, Frederic Ives
Carpenter, George S.
Carpenter, Hubbard
Carpenter, Miss
Rosalie S.
Carqueville, Mrs. A. R.
Carr, Edmund S.
Carr, George R.
Carr, Walter S.
Carry, Joseph C.
Carton, Alfred T.
Case, Elmer G.
Casey, Mrs. James J.
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Hildebrand, Grant M.
Hilgendorf, George H.
Hill, Frederick
Hill, John
Hill, William H.
Hillis, Dr. David
Hillyer, Dwight E.
Hilton, Henry H.
Himan, Charles
Hindman, Arthur S.
Hinds, Joseph B.
Hinn, Dr. George J.
Hird, Frederic H.
Hirsch, Henry H.
Hirsch, Jackson H.
Hirschfeld, Dr. S.
Hiscox, Morton
Hitchcock, R. M.
Hite, Harry A.
Hodgdon, William
Hodge, Thomas P.
Hodges, Louis A.
Hodson, William
Hoefer, Ernest
Hoelscher, Herman M.
Hoffman, Jacob
Hoffstadt, Dr. John P.
Hogg, Harry H.
Holabird, John A.
Holden, Charles R.
Holland, Dr. William E.
Hollmeyer, John G.
Holloway, Owen B.
Hollowell, R. D. T.
Holm, Gottfried
Holman, Alf. L.
Holman, Edward
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Holmgren, Elmer N.
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Holt, James A.
Honnold, Fred C.
Hooge, Dr. Ludwig F.
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Hopkins, Mrs. Blanche B.
Hopkins, Walter D.
Horn, Albin O.
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Horsefall, Olin L.
Horst, Curt A.
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Horween, Ralph
Horwich, Philip
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Hoskins, Edmund F.
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Houghteling, James L.
Houk, William D.
Howard, Eugene A.
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Howell, Albert S.
Howes, Henry W.
Hoyt, Dr. D. C.
Hoyt, William M. II
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Hubbard, E. J.
Hubbard, William C.
Hubbell, William J.
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Hull, Robert W.
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Humiston, Dr. Charles E.
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Hunsche, Frederick
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Hurd, Max H.
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Hutchison, Mrs. C. L.

Iliff, George F.
Ingram, Harold S.
Ingram, Miss Lottie N.
Inlander, Samuel
Insull, Martin J.
Irish, Dr. Henry E.
Irwin, A. C.
Ismond, Thomas A.
Iverson, Ralph H.
Iwert, William C.

Jaburek, Richard
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Jackson, Raphael
Jackson, Miss Ruby A.
Jackson, William F.
Jacobs, Julius
Jacobs, Nathan
Jacobson, Raphael
Jacobson, William
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Jaenicken, Frederick H.
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James, Dr. T. Franklin
Jameson, Clarence W.
Jamison, Leroy D.
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Jarchow, Charles C.
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Jeffries, Dr. Daniel W.
Jehn, Rev. Ernest G.
Jenks, Pierre G.
Jennische, Ludwig
Jensen, Carl F.
Jensen, Christ A.
Jensen, Gorm
Jernberg, C. Edgar
Jernberg, Carl L.
Jirsa, Dr. Otto J.
Johanigman, Sterling E.
Johnsen, Charles
Johnson, Alfred W.
Johnson, August
Johnson, Bert W.
Johnson, Charles E.
Johnson, Fred A.
Johnson, Harry C.
Johnson, Henry G.
Johnson, James C.
Johnson, Julius G.
Johnson, Martin A.
Johnson, Nels E.
Johnson, Nels J.

Johnson, P. Robert
Johnson, Philip C.
Johnson, Ray T.
Johnson, Ulysses G.
Johnson, Vernon
Johnson, Victor M.
Johnston, Bernard F.
Johnston, David B.
Johnston, Ira B.
Johnston, Samuel P.
Johnstone, Balfour
Johnstone, George A.
Jonas, Sol T.
Jones, Charles J.
Jones, Miss Edna E.
Jones, Mrs. Homer D.
Jones, James B.
Jones, John S.
Jones, L. Beers
Jones, Dr. Margaret M.
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Joseph, Morris
Joy, James A.
Judah, Mrs. Noble Brandon
Julius, Leonard H.
Junker, Richard A.
Junkunc, Stephen
Just, Mrs. Charles L.

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Kahmann, Karl W.
Kahn, I. W.
Kanavel, Dr. Allen B.
Kann, Max M.
Kannally, Michael V.
Kapsa, Ladislav A.
Karalius, Dr. A. J.
Karpen, Sol
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Kassner, Conrad
Kellogg, James G.
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Knight, Stanley M.
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Kohn, Oscar
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Krafthefer, James M.
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Krakow, Oscar
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Kuhlmann, Clarence F.
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Kulpak, Stephen A.
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Kurz, Oscar A.
Kussel, Gabriel

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Lawrence, B. E.
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Lee, J. Owen
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Leigh, Edward B.
Leight, Edward A.
Leight, Mrs. Edward A.
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Le Sage, John J.
Lester, Albert G.

Lester, Frank H.
Levan, Rev. Thomas F.
Levey, Clarence J.
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Levinson, Dr. Benjamin
Levinson, Salmon O.
Levis, W. Walter
Levitan, Louis
Levitetz, Nathan
Levitt, Nathan
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Lichtenstein, Walter
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Lindheimer, S. W.
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Linkman, Louis B.
Linn, Erick N.
Linsley, Willis H.
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Little, John L.
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Lobdell, Harry H.
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Lochner, Frederick H.
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Loeb, Hamilton
Loeb, Dr. Ludwig M.
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Logan, Frank G.
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Longhi, Emilio
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Louis, Isadore
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Lozo, Joseph P.
Lucas, Dr. A. L.
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Lutzow, Fred H.
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McCarthy, Rev. Father Geo. T.
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Marshall, Raphael H.
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Mason, George, Jr.
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Meeker, Arthur
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Merrill, William W.
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Montgomery, Fred. D.
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Moore, Nathan G.
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Morris, Eugene C.
Morse, Mrs. Charles F.
Morsman, Joseph J.
Morton, William Morris
Moses, Howard
Muldoon, John A.
Mulliken, A. H.
Mulliken, John H.
Munger, George E.
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Nash, Patrick A.
Nelson, E. A.
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Nesbit, William
Nichols, Edwin G.
Nichols, Warren
Nickerson, J. F.
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Norton, John W.

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Ollier, Valentine
O'Malley, Dr. J. G.
Omo, Don L.
Orndoff, Dr. Benjamin H.
Ossendorff, Dr. K. W.
Otte, Hugo E.

Packard, Dr. Rollo K.
Packer, Charles Swasey
Paddock, Dr. Charles E.
Palmer, Prof. Claude Irwin
Palmer, Percival B.
Parker, George S.
Parker, Norman S.
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Peacock, Charles A.
Pearl, Allen S.
Peck, Mrs. Charles G.

Pennington, Frank B.
Perlstein, Benjamin
Perry, Dr. Ethel
Petersen, Jurgen
Peterson, Albert
Philipson, Isidor
Pick, Albert, Jr.
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Pickell, J. Ralph
Pickrell, Harvey
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Plamondon, Charles A.
Platka, Frank T.
Pond, Allen B.
Powell, Miss Nellie
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Pruyn, William Henry, Jr.
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Quadow, Nathan L.
Quinlan, Dr. William W.

Raber, Franklin
Raff, William J., Sr.
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Randle, Guy D.
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Rayhorn, Charles
Reach, Benjamin
Reed, Earl Howell, Jr.
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Reed, Rufus M.
Reeve, Frederick E.
Regensburg, James
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Richards, Marcus
Richter, Dr. H. M.
Rigali, John E.
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Rockwell, Harold H.
Roden, Carl B.
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Rogerson, Edward J.
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Rollo, Egbert
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Rosenbaum, Mrs. Edwin S.
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Ryan, Thomas C.

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Schmidt, Dr. Otto L.
Schmidt, Richard E.
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Schnering, Otto Y.
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Schroeder, Dr. Frederic H.
Schroeder, Dr. George H.
Schroeder, Dr. Mary G.
Schulman, A. S.
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Schwab, Martin
Schwager, Dr. Irving
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Schweizer, Albert H.
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Sethness, Charles O.
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Shepard, Guy C.
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Sherman, L. B.
Shibko, Joseph A.
Shoan, Nels
Shortall, John L.
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Simpson, Dr. Elmer E.
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Smith, Frederick W.
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Smith, Miss Mary Rozet
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Stevens, Raymond W.
Stevenson, James R. D.
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Stewart, Samuel C.
Stewart, William
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Stockton, Miss Josephine
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Straus, Eli M.
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Strawn, Taylor
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Strobel, Charles L.
Strong, Gordon
Sulzberger, S. L.
Swift, Mrs. Alden B.
Swift, William E.

Tauber, William
Taylor, Francis W.
Teich, Max L.
Tenney, Horace Kent
Thomson, James
Thorne, Hallett W.

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Tieken, Dr. Theodore
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Trude, Mrs. A. S.
Tubergen, Mrs.
Benjamin F.
Tucker, Dr. George W.
Tufts, Prof. Jas. H.
Turner, Alfred M.
Tuthill, Richard S.
Tuttle, Charles
Tuttle, W. F.

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Urion, Alfred R., Jr.

Van Dellen, Dr. R. L.
Van Hoosen, Dr. Bertha
Van Schaick, Mrs. Ethel R.
Vantine, Miss Grace B.
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Vaughan, Roger T.
Veatch, Miss Marie
Vehe, Dr. K. L.
Vickery, Miss Mabel S.
Vilas, Lawrence H.
Voigt, Miss Alice
Voltz, Daniel W.

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Wagenknight, A. R.
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Walcott, Chester Howe
Walker, Bertrand
Walker, James R.
Walker, Dr. James W.
Wallace, John F.
Waller, Miss Katherine
Wallin, Dr. Thomas G.
Wallner, Dr. John S.
Ward, David L.
Warren, Allyn D.
Warren, Mrs. Homer S.
Warren, William G.
Waters, R. T.
Watkins, William Waynne
Weary, Edwin D.
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Wedelstaedt, H. A.
Wegg, Donald R.
Weiss, Samuel H.
Welch, Ninian H.
Wentworth, John
West, Frederick T.
Westbrook, Mrs. E. S.
Wheeler, Seymour
Whitehead, W. M.
Wild, Richard
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Williams, Eugene P.
Williams, Gaar
Wilsey, R. E.
Wilson, Miss Carolyn
Wilson, Mrs. E. Crane
Wilson, M. H.
Winston, Bertram M.
Winter, I.
Winterbotham, John R.
Witkowsky, Miss Esther
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Wolff, George F.
Wood, John H.
Woodyatt, Dr. Rollin
Turner
Worthy, Sidney W.
Wright, Dr. James A.
Wright, Mrs. Warren W.
Wright, William M.
Wuehrmann, H. F.

Young, George H.

Zenos, Rev. Andrew C.
Zeuch, Dr. Lucius P.
Zimmermann, Herbert P.
Zucker, W. J.

Deceased 1925

Bidwell, Joseph E.
Brown, Walter B.

Chapman, Dr. Edward D.

Giessel, Henry
Grey, Charles F.

Hart, Harry
Harter, Gustav A.
Hess, Armin E.
Hess, Edwin J.
Hirsch, Mrs. Matilda
Hoffman, Miss Catherine
Hottel, William S.

Keyes, Rollin A.

Lassague, Victor F.
Lynch, Benjamin L.

Von Kleinwachter,
Dr. Ludwig

NOTE: These membership lists are complete to April 1, 1926 and include only the names of persons actively associated with Field Museum during the preceding year.